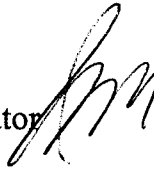


COUNTY OF YORK

MEMORANDUM

DATE: October 13, 2005 (BOS Mtg. 10/25/05)

TO: York County Board of Supervisors

FROM: James O. McReynolds, County Administrator 

SUBJECT: Public Sewer Extension Agreement - Felgates Woods

The Board of Supervisors previously approved R05-125, which authorized a Public Sewer Extension Agreement for a new 92 lot residential development named Felgates Woods. As part of the developmental approval process, the developer's engineer was required to conduct an analysis of the existing capacity of the Hickory Hills Pump Station and make design recommendations to increase the capacity.

Two options were discussed in detail with the developer's engineer:

- The first option called for increasing the pumping capacity of the existing pumps with larger impellers and increasing the size of the discharge piping from 4 to 8 inches. The engineer's estimate for these improvements is \$73,000.
- The second option called for replacing the drive shaft centrifugal pumps entirely and installing new dry pit submersible pumps and installing all new associated piping and increasing the discharge piping from 4 to 8 inches. The engineer's estimate for these improvements is \$150,000.

The Hickory Hills Pump Stations was constructed in 1984 as part of the EPA projects. The operating discharge pumps for the station are drive-shaft centrifugal pumps, which from an operational and maintenance standpoint, are beyond their useful life. Additionally, the drive shaft configuration is a safety concern for operations. Based on this information and discussions with Utility Operations, it is recommended that Option 2 is selected.

Additionally, the operating discharge capacity of the Pinetree Pump Station will be adversely impacted by this development because of the increased head pressures in the shared force main. The two discharge pumps will need larger impellers to maintain the current pumping capacity. The estimated cost to replace and install two new impellers is \$25,000.

The connection fees for the approved development are \$211,600. Environmental and Development Services recommends utilizing Section 18.1-54 of the County Code to have the developer design and make the necessary upgrades to the two stations discussed in the

amount of \$175,000. This would reduce the total amount of connection fees due to the County to \$36,600.

It is recommended that the Public Sewer Extension Agreement referenced above be amended and authorized through the adoption of Resolution R05-174 to reflect the changes discussed above.

Woodward/3241:bkw

Attachments:

- Map of Service Area-Exhibit A
- PSEA
- Proposed Resolution R05-174